

THE ATRON 501 DATAMANAGER

IT
MINDS
YOUR
OWN







The Atron 501 Datamanager

THE BUSINESS-MINDED SMALL COMPUTER

Which is one way of saying "Business, here is a small computer for you. Not for science, but for business."

That's because our Datamanager moves data in strings as well as single characters. Meaning volumes of data moved more efficiently.

The Atron 501 Datamanager speaks your language. That is, it works with codes and instructions that are very similar to the way you might give instructions to someone across the desk from you. It has 56 macro instructions and a unique data structure that help reduce programming dramatically. Format and function changes that would take many instructions on a conventional mini, require only a few simple steps on the Datamanager.

It all means that programming is much simpler on the Atron 501 Datamanager and the actual program takes up much less memory space than the minis you know today.

Take a look at our macro instructions and you'll see why our Datamanager is *the* business-minded small computer.



The Instruction Power of the Datamanager

Each instruction is like a macro-subroutine. It tells *what* to do, not *how* to do it. Which means that every single instruction does more than one thing. Which, in turn, means your program coding is condensed.

For example:

Move Item Left and Eliminate Leading Zeros

Extract Characters Until End of Line Code

Perform Code Translation

Decimal Arithmetic

These are examples of single machine language instructions in the Atron 501 Datamanager. To accomplish each of these same common business tasks, the non-business minis require numerous instructions. The result is that the Atron 501 Datamanager performs such tasks faster, uses less memory space, and requires less software development and documentation.

Macro Instructions

MNEMONIC CODE	INSTRUCTION
Basic Moves	
M	Move, Left, No Fill
MR	Move, Right, No Fill
MF	Move, Left, Fill
MRF	Move, Right, Fill
MJ	Move, Left Justified
MRJ	Move, Right Justified
TRL	Translate Code
ML	Move Literal
Sequential Editing	
CP	Compress Left Aligned, Fill
CPR	Compress Right Aligned, Fill
APR	Append, Right Eliminate
APA	Append, Advance
APE	Append, Left Eliminate
EXV	Extract Variable, Fill
EXP	Extract Previous Item
EX	Extract Item
EXA	Extract Item, Advance

MNEMONIC CODE	INSTRUCTION
Tests	
TBS	Test Binary Sign
TDS	Test Decimal Sign
TI	Test Item
TL	Test Literal
TM	Test Mask
Goto's	
GGT	GOTO Greater Than
GLT	GOTO Less Than
GNE	GOTO Not Equal
GE	GOTO Equal
G	GOTO Unconditionally
GD	GOTO On Designators
GS	GOTO On Switches

The Datamanager's repertoire includes 56 *multiple operand instructions*, which operate on *variable length data*. We've grouped these instructions in the following seven basic functions:

Data Moves

Datamanager transfers a complete string of characters directly from one memory area to another, with or without editing.

Sequential Editing

This enables the Datamanager to edit, format and test large volumes of non-structured data as they are being transferred with a single instruction.

Arithmetic

The Datamanager adds and subtracts variable length numbers in either *decimal* or binary.

Comparisons

The Datamanager compares strings of data, rather than comparing characters to other characters. This can be used for decisions.

Tests

The Datamanager tests for signs and identities. This can also be used for decisions.

Program Sequence

This initiates conditional and unconditional branching from the program sequence.

Input/Output

These instructions provide the control necessary to input data from and output data to peripheral devices. They provide the means to control the peripheral devices, initiate input and output buffers and to determine if the buffers have terminated.

MNEMONIC CODE

INSTRUCTION

Decimal Arithmetic

A	Add Decimal
S	Subtract Decimal
AL	Add Literal Decimal
SL	Subtract Literal Decimal

Binary Arithmetic

AB	Add Binary
SB	Subtract Binary
ALB	Add Literal Binary
SLB	Subtract Literal Binary

Compares

CB	Compare Binary
CD	Compare Decimal
CAN	Compare Alphanumerics
CL	Compare Literal

MNEMONIC CODE

INSTRUCTION

Input/Output

INS	Special In
EF	External Function
OTS	Special Out
GA	GOTO on Channel Active
STC	Store Channel Control
IN	Initiate Input
OUT	Initiate Output

General Purpose

LR1	Load Active Register 1
LR2	Load Active Register 2
LR3	Load Active Register 3
SDI	Set Display Indicators
CDI	Clear Display Indicators
H	Halt
RN	Rename
LSP	Load Storage Descriptor Pointer



Talking business with your Datamanager

Our unique approach to software helps your people make the most effective use of the Atron 501 Datamanager's power.

- Datamanager provides a macro-powerful set of 56 easy-to-use program instructions, which are multiple operand and operate on variable length strings of data.
- Data, its description and instructions for your application are separated by the machine design. As a further step, data is described in terms of records, items in these records, and buffer or working areas.

Application Program Development

As a user you have the advantage of being able to identify the particular element of information, its contents and layout and its relation to the rest of the data in memory. You're using a high level language and data organization to process your data.

To make it even easier, Atron makes available an assembler . . . which operates on a standard IBM System 360/25 configuration or on a specific Atron Datamanager system (using about one-half the memory space required on the 360 system). The assembler, treating the Datamanager's high level macro set, places the programmer at the compiler language level of treating his problems. Because of Datamanager's macro instructions and data sensitive hardware design, the assembler is truly a powerful data processing language.

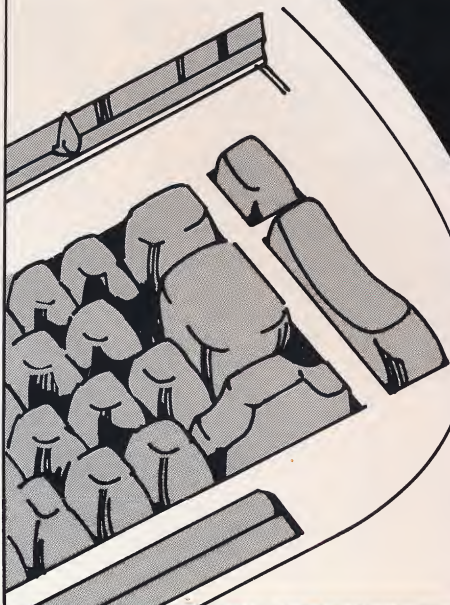
Changes

Many changes that commonly require hours of programming can now be only a few simple steps, because the application program operates through the data descriptors. For example, major changes in a print format can be accomplished by only altering the data descriptors affected . . . like four bytes . . . *no change* to the application program . . . *no change* to the source data . . . and no change to any other control instructions.



Typical Datamanager Applications

MANUAL ENTRY



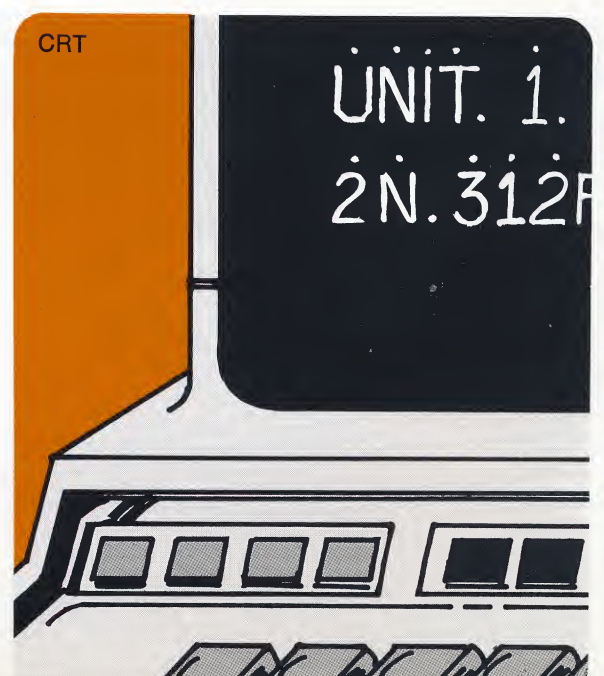
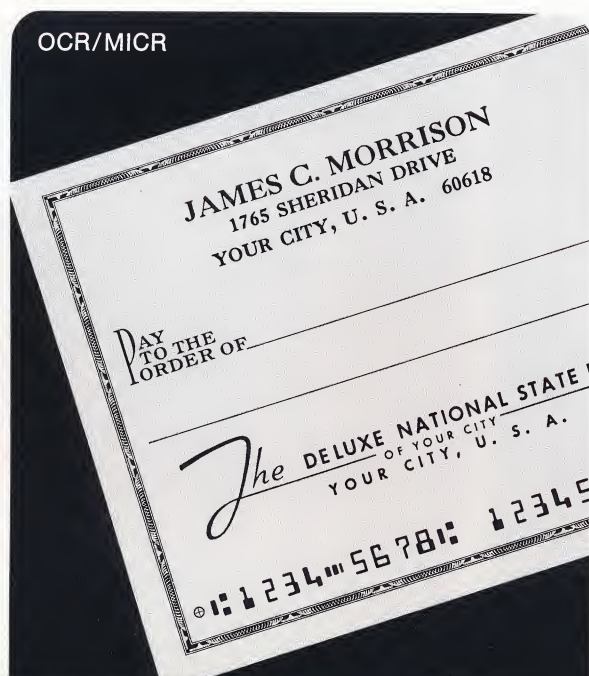
PAPER
TAPE



How your data is managed

The needs of business data processing are clear. A small computer must be able to handle input and output efficiently, while processing volumes of data. Operations include formatting, translating, comparing, testing, and business arithmetic.

These are several significant features of the Atron 501 Datamanager, which make it the ideal business computer. Four fully buffered I/O selector channels provide full I/O and processing concurrency. For special interfaces, the Datamanager comes equipped with two direct memory access ports. It can provide a total I/O throughput of 500K bytes per second. And for long distance I/O, the Datamanager is available with full duplex or dial-up communication capability (and, an industry compatible software package to make it work).



Off-line Pre and Post Processor

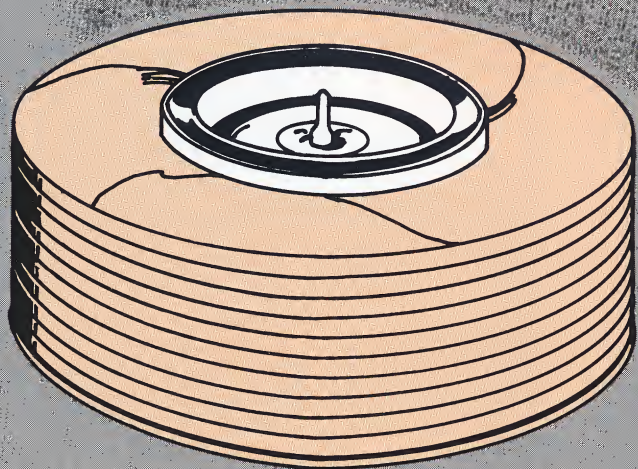
Datamanager's ability to handle data in strings and ease of peripheral interface makes it a key element in off-line pre and post processing operations. In these applications Datamanager relieves the major computer centers of many mundane, time-consuming tasks.

Small Business System and Remote Business Terminal

The business data processing requirements of many small business or branch office operations are handled nicely by a Datamanager-based system. Daily transactions, inventory management, accounts receivable and payable are among the more obvious; customer history and call scheduling, mailing, market

response analysis and budget planning are other valuable applications. With communications added, a very powerful Business Terminal is at the user's disposal. The software permits adapting to different major centers; that is, your major computer facility may use IBM 360, GE, Univac, Burroughs, CDC or others. You have a choice of centers even though there may be an IBM System 360 in one center and a GE 600 Series or UNIVAC 1100 Series in another. Further, the Datamanager permits you to pre-process your data for such things as trial balance before sending the data over the lines. This ability will save considerable money by avoiding payment for line time and central site CPU time ... only to learn that there is an error in the source data ... with the error still to correct, transmission and cen-

DISCS



PRINTER

EMP NO	EMPLOYEE NAME	NO OF DEP	SOCIAL SECURITY NUMBER	YTD GROSS PAY	YTD FIC
00001	JOHNSON, HANLEY L.	3	447356562	5353.52	45.
00002	ANDERSEN, CONNELLY	2	462530541	5241.52	62.
00003	LITTLE, RICHARD L.	2	452035241	5035.45	47.
00004	GREY, JACK T.	1	470545224	5324.45	47.
00005	FRIER, DONALD J.	3	462540245	6024.63	54.
00006	DOWNING, ROGER K.	5	473512475	4996.36	51.
00007	SHIVELY, CAROL A.	1	472523335	3224.65	32.
00008	GARBER, ANNE S.	1	452632541	4003.93	44.
00009	LARSON, SUSAN K.	1	437524128	3999.99	41.
00010	JONES, JOHN L.	5	457251478	5036.63	49.
00011	THOMAS, JAN H.	1	470256352	4325.25	46.
00012	BOND, JAMES T.	1	455253652	6052.25	40.
00013	NIEGH, LOUIS G.	3	452124568	5235.63	48.
00014	HOWARD, BARBARA S.	1	472356523	4352.63	46.
00015	KREER, NEIL J.	2	456352568	6052.45	70.
00016	ROGERS, KEN J.	3	427251452	4654.85	45.
00017	REINER, LARRY M.	2	457259853	4725.50	50.
00018	REINHART, LARRY K.	1	425635263	4750.25	49.
00019	SHORE, CHARLES L.	2	425857456	4335.65	45.
00020	TRAEMANE, JAMES K.	2	452336985	4385.65	47.
00021	JAMES, MICHEL K.	3	465234565	5236.65	49.
00022	SPOCK, JULES T.	2	475254658	4110.65	40.
00023	GRIEG, DAVE S.	4	465325268	4055.50	35.
00023	GRIEG, DAVE S.	4	465325268	4055.50	35.
00023	GRIEG, DAVE S.	4	465325268	4055.50	35.
00023	GRIEG, DAVE S.	4	465325268	4055.50	35.
00024	STEVENS, DOUGLAS L.	4	425125368	4250.65	46.
00025	MCNEIL, JOHN K.	2	425725896	4325.02	45.
00024	STEVENS, DOUGLAS L.	4	425125368	4250.65	46.
00018	REINHART, LARRY K.	1	425635263	4750.25	49.
00025	MCNEIL, JOHN K.	2	425725896	4325.02	45.
00016	ROGERS, KEN J.	3	427251452	4654.85	45.

tral processing still to be done — not to mention the time lost.

Specialized Dedicated Systems

The Datamanager's low cost and flexibility is an asset where you need an expandable small system. Use it as the base for text editing, information retrieval systems, and catalog filing systems. Datamanager's cost saving design will make it the most economical system of its kind.

On Line Peripheral Controller

The Datamanager offers workload relief for a large scale processor by assuming the time consuming tasks of formatting input records, printer outputs and updating files. The use of

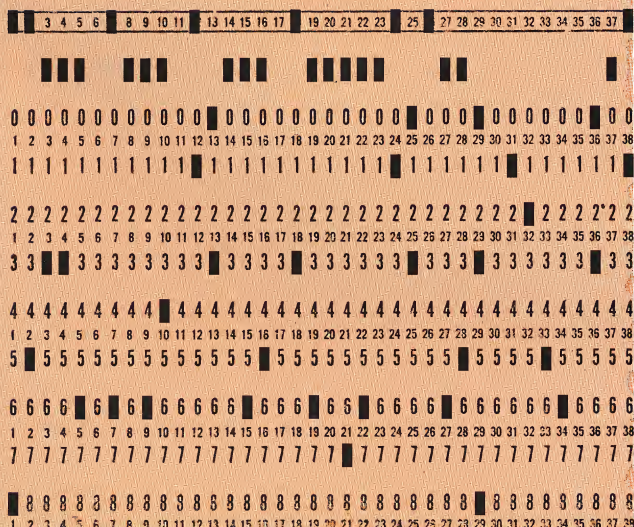
the Datamanager in this role opens other potentials for the center operations such as file inspection without ever bringing the file into the large scale processor.

Pick Your Hardware

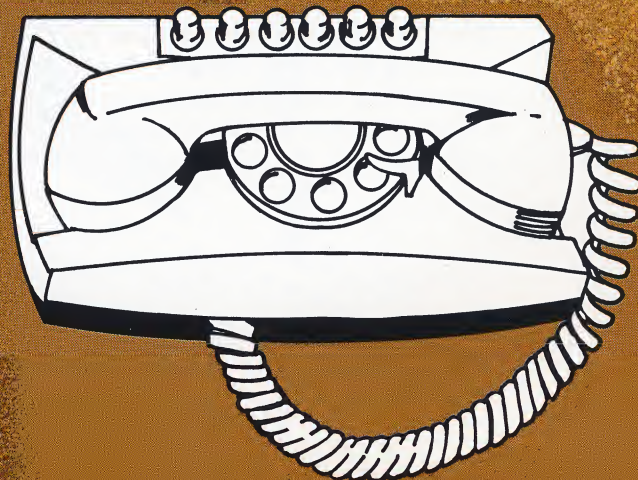
We also supply peripherals best suited for Datamanager's business talents. High and medium speed card readers and printers are available now, along with magnetic tape, fixed-head disc, TTY and communications subsystems.

Whether packaged in a stand alone cabinet, rack-mounted or packaged to your specifications, Datamanager manages the system you need.

CARD EQUIPMENT



COMMUNICATIONS



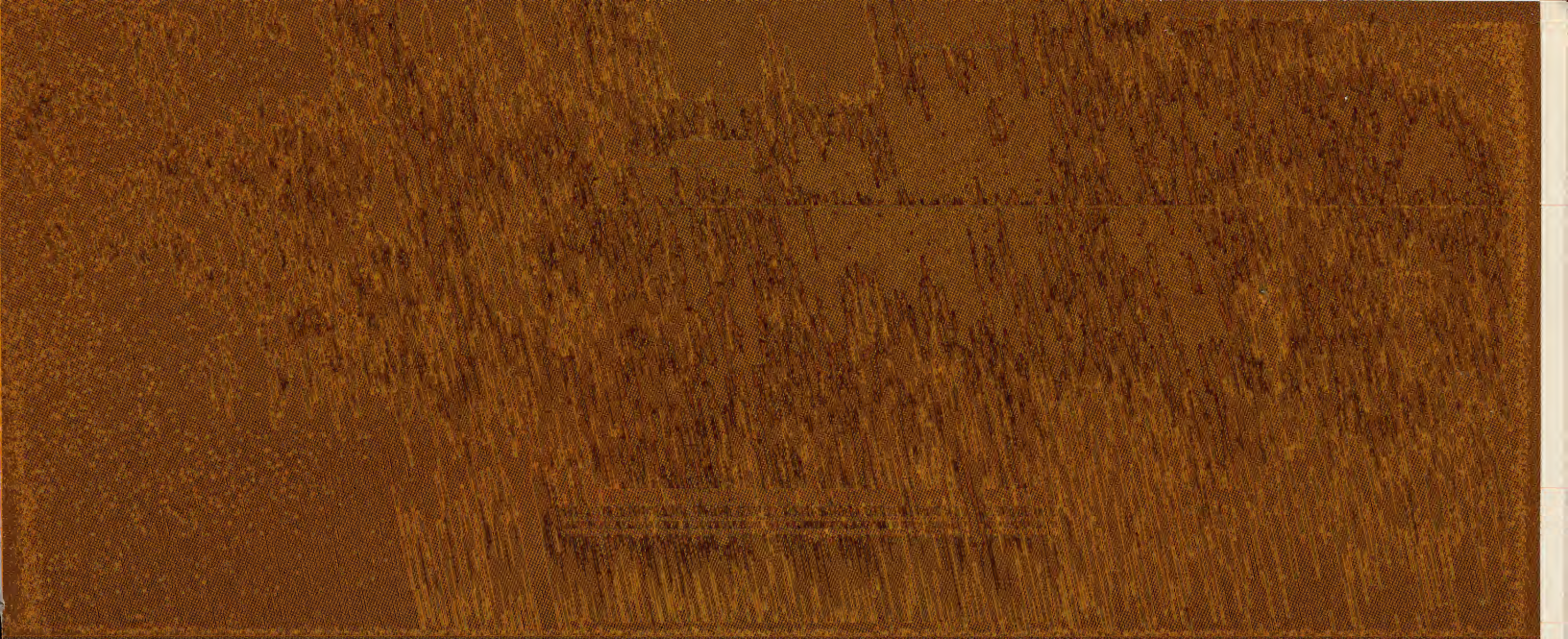
Support for your business mind.

End User:

We can provide a turnkey installation, and train your people to operate it. Our systems and programming people will undertake as much of your programming as you wish. Should you desire to do your own programming, our short, simple training courses prepare even the novice programmer for efficient work with the Datamanager. You'll also get monthly maintenance, or time and material maintenance from the Atron people.

OEM:

For our OEM customers, Atron's engineering staff is available to develop your desired interfaces or consult with your engineers to make their design task easier. Using the available specifications, the expansion modules and matching general purpose circuit boards, the engineering time and cost are minimized. In addition, we provide maintenance training for your customer service people.



Datamanager Model 501 Specifications

Type

Small programmable digital computer designed for business processing and data handling functions. Features core memory, three-address decimal and binary arithmetic and variable word length.

Memory

Magnetic core, 2 microsecond full cycle, 8 bit bytes, with parity. Expandable from 4,096 to 32,768 bytes. All I/O is direct access to memory.

Arithmetic

Binary — fixed point, serial by characters, 2's complement, variable length.

Decimal — variable number of characters, sign in low order digit, EBCDIC.

Processing Power

56 Macro Instructions

Addressing of variable length items via descriptor tables.

Relocatable program, data and data descriptors.

Indexing

Automatic index. For structured data up to 256 bytes by item and record descriptors. For non-structured data, index through variable length data blocks using sequential editing instructions.

Input/Output

Four fully buffered selector channels. I/O and

processing concurrency on cycle steal basis. Standard channel transfer rate 250K bytes per second. Program check for buffer termination. Two direct memory access ports for special interfaces, providing access to both address and data lines. Total I/O throughput of 500K bytes per second.

Interrupt Processing

Provision for interrupt service. Requirements can be tailored to system need for single level or nested interrupts.

Logic Levels

TTL integrated circuits. Differentially driven and TTL compatible transmission busses.

Physical

Mounting: Desk Top, Relay Rack or Standup

Size: (1) Desk Top, 10¼" H x 19" W x 32" D
(2) Relay Rack, 12¼" H x 19½" W x 25¾" D
(3) Standup, 40" H x 24" W x 14" D

Weight: 105-115 lbs.

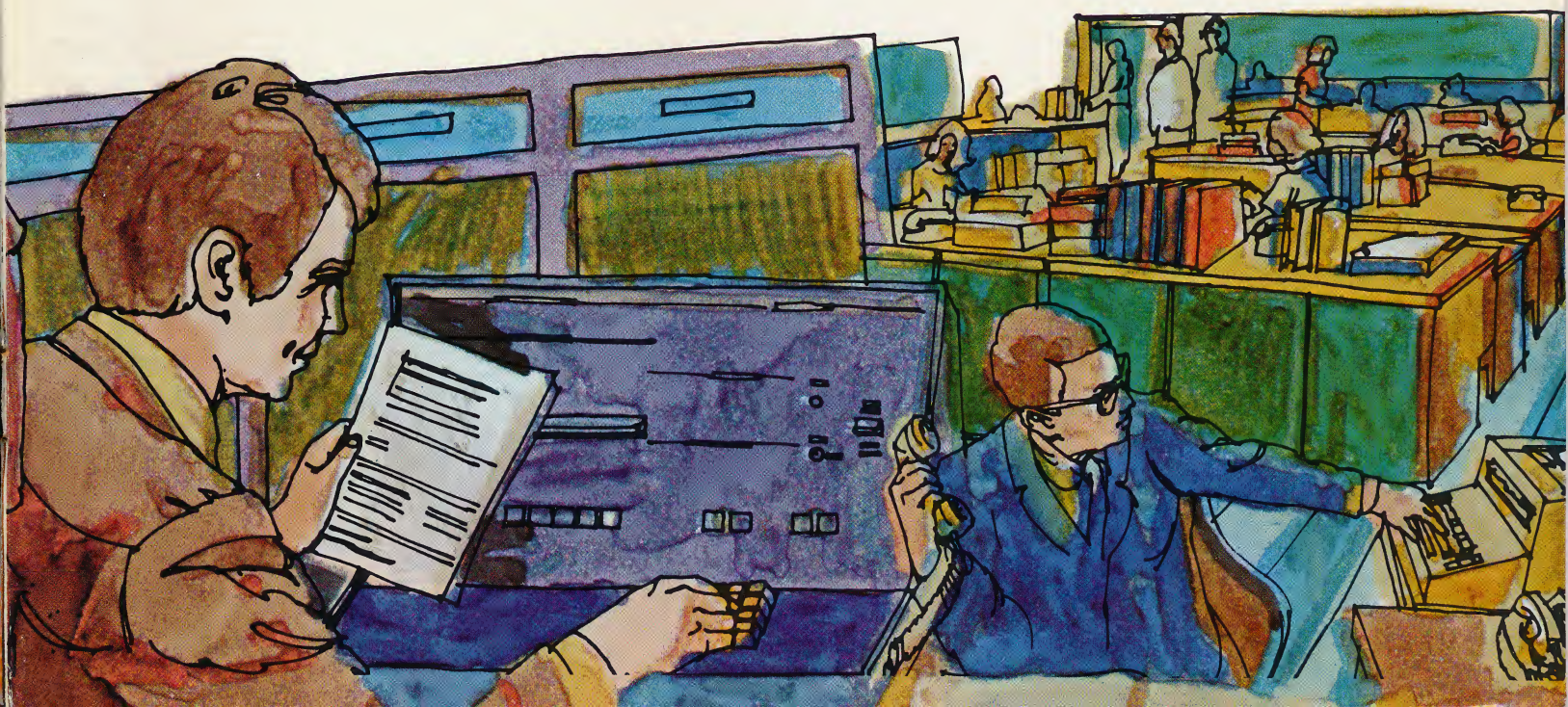
Power: 115 or 230 VAC, 50 or 60 Hz, 400 watts

Temperature: 0° to 50° C

Relative Humidity: 10 to 95%

Software

Assembler, utility, confidence tests, maintenance aids, and R.P.G.





ATRON CORPORATION

1256 Trapp Road, St. Paul, Minnesota • 612/454-6150

THE **ATRON** DATAMANAGER
REMOTE BUSINESS TERMINAL

IT
MINDS
YOUR OWN

BUSINESS

THE ATRON DATAMANAGER



Datamanager Remote Business Terminal

Progress has been made in recent years in the design of remote batch terminals. A growing awareness of the needs of remote terminal users has dictated the development of intelligent (programmable) remote terminals. A programmable remote terminal can be compatible with a wide range of central site computers and keep pace with technological progress through inexpensive software changes. Atron has carried this concept the necessary one step further.

The design of the Datamanager Remote Business Terminal is aimed directly at efficient business data processing. Because every business application works with strings of data, the Datamanager handles data in strings. It manipulates volumes of data with efficiency and programming ease. As a result, the Datamanager is particularly suited for a variety of business applications.

Adding communications capability to the Datamanager puts a very powerful business terminal at the disposal of the user. Flexible remote terminal capabilities can be combined with a variety of business applications. To complement our processing power, Atron is also supplying various peripheral devices best suited for the Datamanager's business talents.

Remote BUSINESS Terminal

... meets your needs

Remote Processing Power

Atron's Remote Business Terminal starts with the power and flexibility of the Datamanager programmable controller. The Datamanager performs the functions necessary to communicate with the central site computer of your choice and to operate the card reader and line printer.

Remote Communications Capability

An operating package is provided for communicating with an IBM 360 system in the IBM 2780 mode. Software packages for other frequently used communication modes and a full complement of off-line utilities will be provided.

Local Processing Power

The off-line business data processing requirements of many branch office operations are handled efficiently by the Datamanager. The 56 macro instructions each give you the "processing power" of a software macro subroutine, thereby simplifying and condensing the program coding.

Cost Effective Performance

The Datamanager's low initial cost, flexibility and efficient handling of branch office requirements make it the most economical system of its kind. The Datamanager saves time by its ability to pre-process data before transmission. Numerous changes now require only a few simple steps because of the Datamanager's macro-power and data structure.

Business-Oriented Power

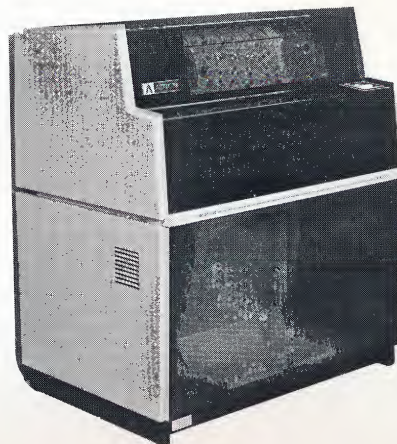
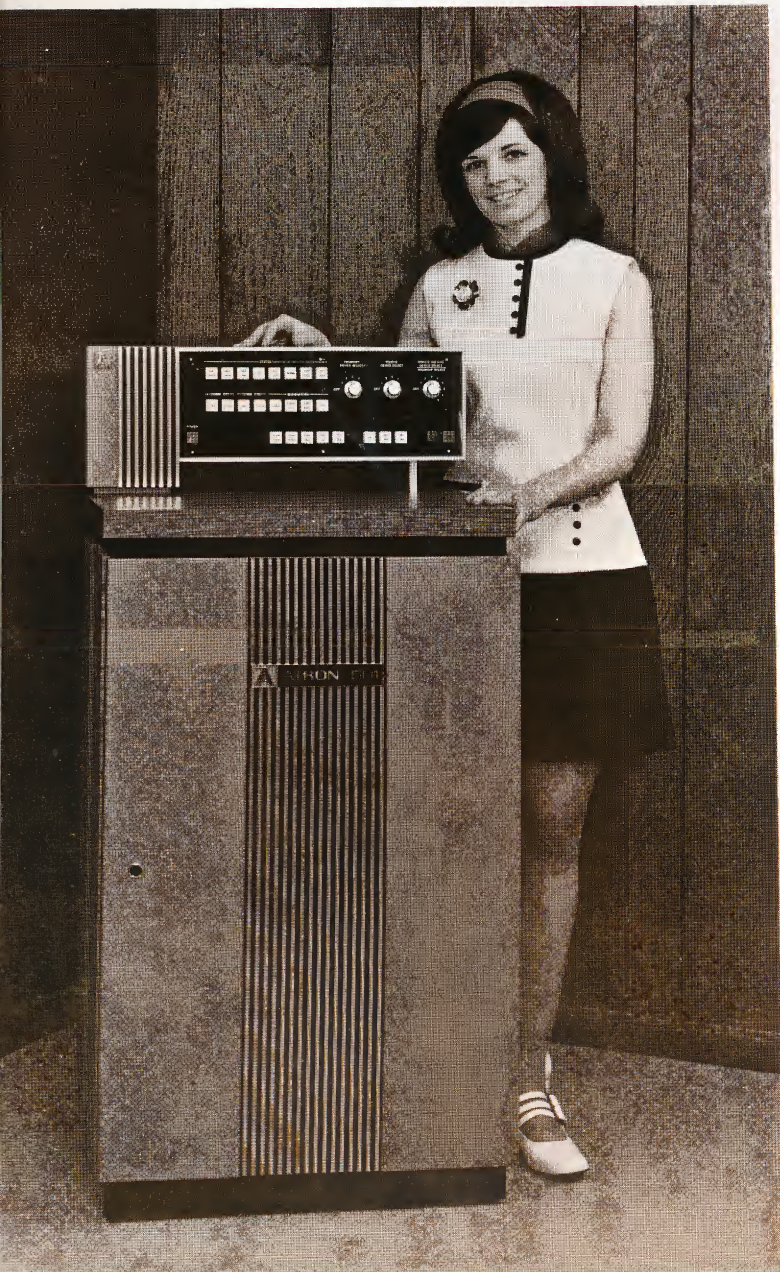
The Datamanager is designed for easy connection to devices oriented to the user's unique needs. The I/O logic lends itself to the attachment of devices for visual display, local storage and document processing. The macro instruction set and data description ease programming.

Communication Concentration

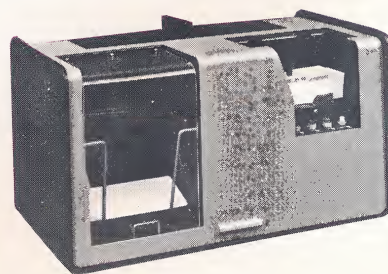
The basic modularity and versatility of the Datamanager make it ideal for consideration as a central site communication manager. This relieves the central site data processing system of many of the high overhead tasks, while providing a means of introducing remote business to the central processing environment.

Atron's systems staff is currently working on communication-concentrator applications for the Datamanager. Look to us for further developments.

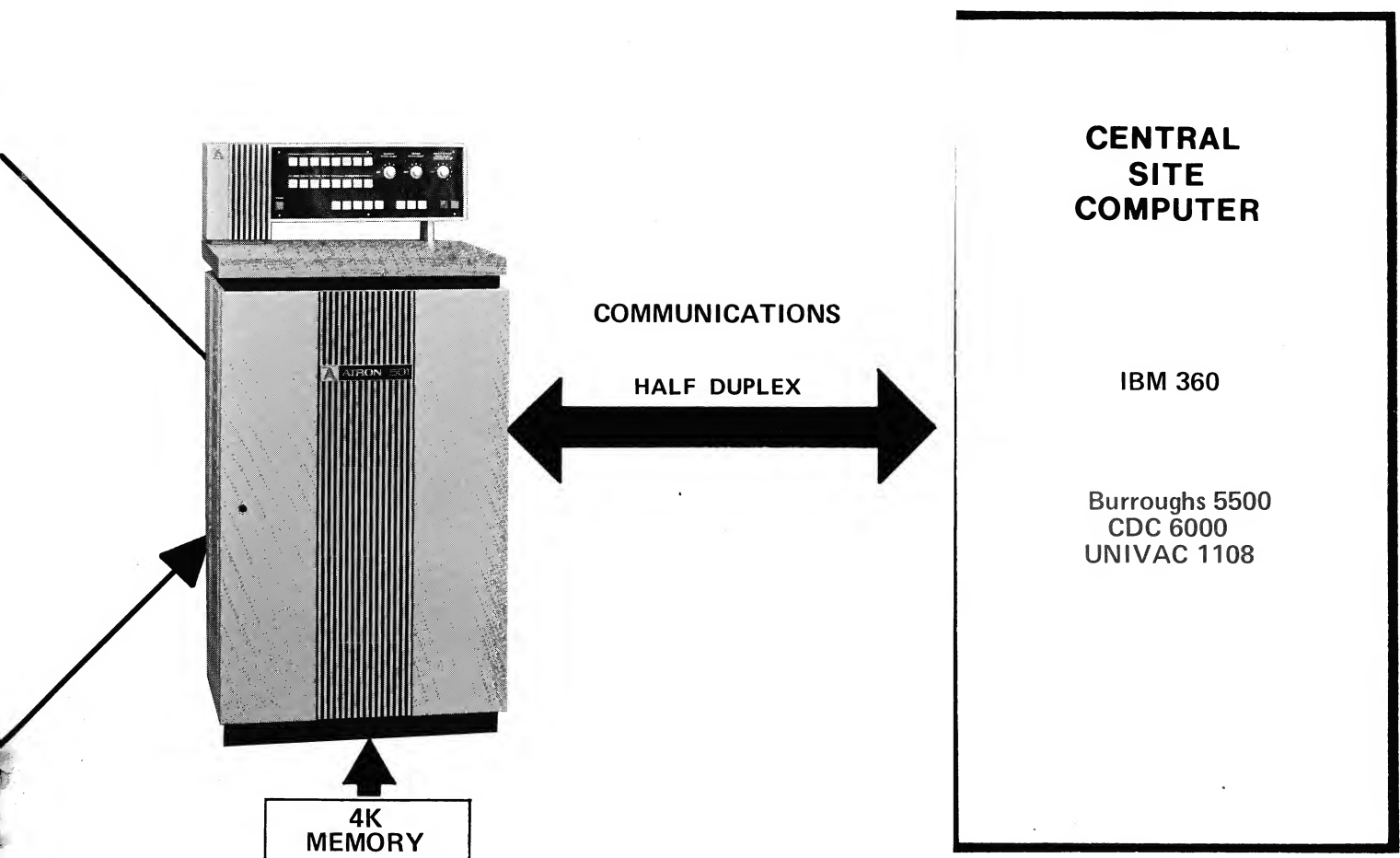
NOW...



PRINTER



CARD READER



IBM 2780 MODE FEATURES

- 360 Operating System compatible
- 2701/03 subsystem-hardware compatible
- Binary-synchronous communication
- Cyclic or longitudinal redundancy checking
- Extended buffer option
- Dial-up (2000 bits per second)

and ... OFFERS



PRINTER



TAPE



DISC



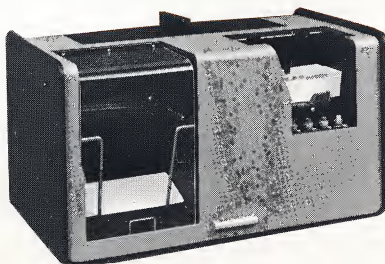
KEYBOARD/
TTY'S



CRT'S



OCR/MICR



CARD READER

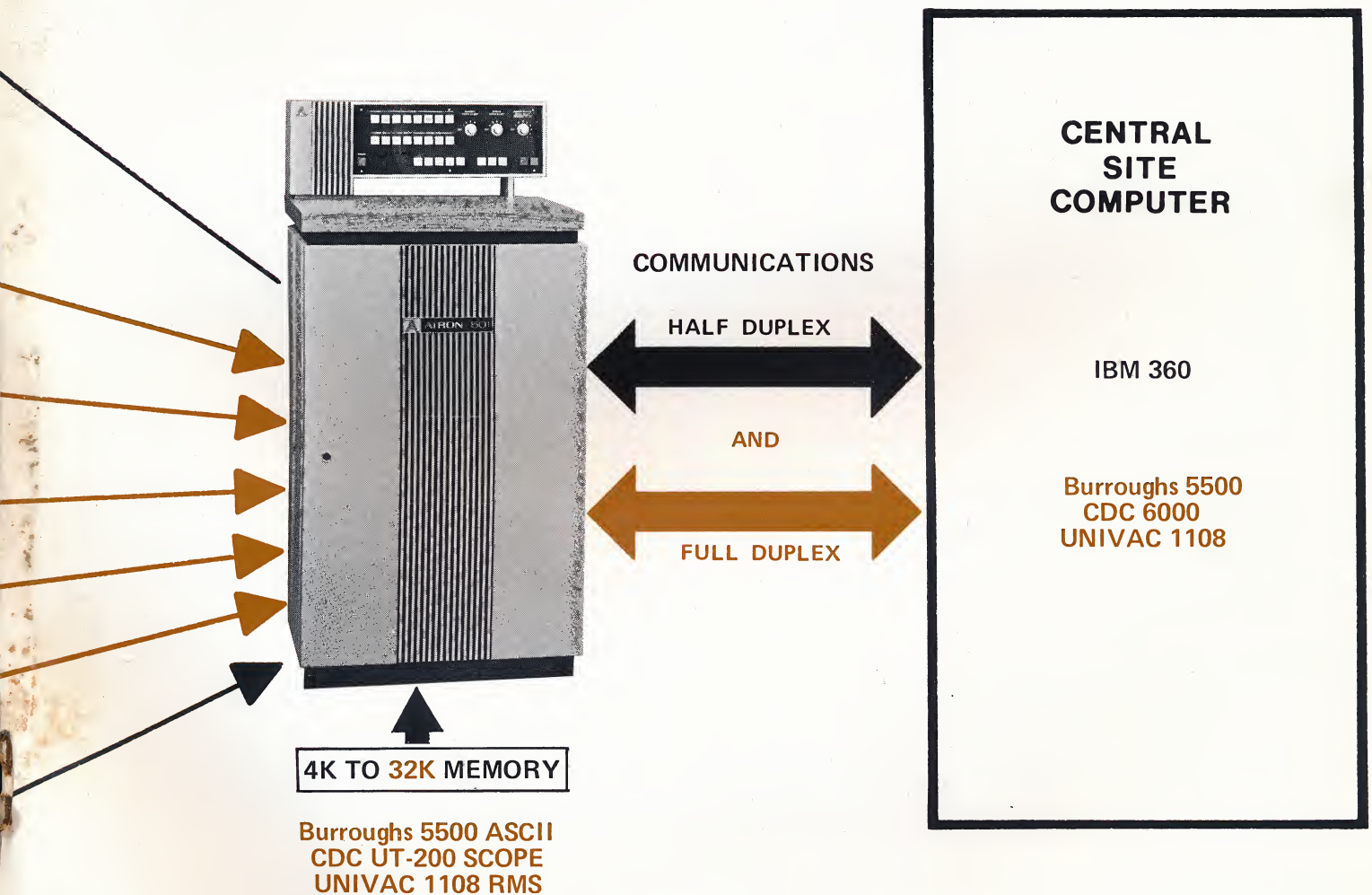


4K TO 32K MEMORY

Burroughs 5500 ASC
CDC UT-200 SCOPE
UNIVAC 1108 RMS

- High-speed modems
 - 3600 bps
 - 4800 bps
 - 9600 bps
- Data compression
- Cyclic and longitudinal checking
- Continuous mode transmission

OFFERS MORE



- High-speed modems
 - 3600 bps
 - 4800 bps
 - 9600 bps
- Data compression
- Cyclic and longitudinal redundancy checking
- Continuous mode transmission

SYSTEM CHARACTERISTICS

Business Communication

The widely accepted use of the IBM 2780 and the need for programmable terminals triggered Atron to first provide the IBM 2780 emulator. This 2701/03 compatible package operates in EBCDIC with transparency and combines frequently used options. Binary Synchronous Communications with Cyclic Redundancy Check is included. Atron also increases the user's capability by offering full-duplex operation over high-speed telephone lines.

Other frequently used communication modes are offered. These include the Burroughs ASCII, the CDC UT-200, and the UNIVAC 1108. By simply reloading the program, the user can access various computers to meet divergent needs for business, engineering, and scientific processing. Atron uses advanced communication techniques. Reading and printing concurrent with transmitting and receiving, data compression, and error control are part of this concept. High-speed, full-duplex modems are offered for 3600, 4800, and 9600 bits-per-second transmission over leased lines.

Datamanager Power

Ideal for business and communications, the Datamanager is designed to handle data in strings rather than single characters. Data, its description, and instructions are separated in the data-sensitive hardware. A macro-powerful set of 56 easy-to-use program instructions operate on multiple, variable-length data strings. Each instruction tells "what" to do, not "how" to do it.

To make it even easier, Atron offers an assembler for operating on a standard IBM 360/25 or on a Datamanager system (using about one-half the memory space as required on the 360). The assembler places the programmer at a convenient compiler level in treating his problems.

Since application programs operate through data descriptors, many changes can be made without altering the program, the source data, and other control instructions. Thus, the user is given the power to design application programs with relative ease, plus the capability to modify such programs with minimum effort. All this means programming is simpler, takes less memory space, performs tasks faster, and requires less development and documentation.

Local Processing

Business data processing for small business or branch office operations is efficiently handled by the Datamanager. Daily transactions, accounts receivable, inventory management, and budget planning are among the more obvious. Because the program operates through data descriptors, many changes that frequently occur in business, and commonly require hours of reprogramming, now can be done in only a few simple steps.

Pre-processing, such as validation, editing, batch proofing, and trial balance, can be done before sending data to a central system. This saves money in both telephone-line time and central processing time. Post-processing can also save line and CPU time by doing file manipulations, editing, printing, and report generation at the remote site.

Atron offers various peripheral devices for complementing the Datamanager's business talents. Magnetic tape, visual display, keyboard and TTY, and disc subsystems are just some. Upward-compatible, high-speed card readers and printers are also available for your remote and local processing needs.

Operator Console

PURPOSE

- Focal point for terminal operation
- Status monitoring
- Parameter entry

SYSTEM FUNCTIONS

- Transmit Device Selection
- Receive Device Selection
- Remote Receive Device Selection
- Program Selection
- Power ON/OFF
- Terminate
- Transmit
- Transmit Transparency Mode
- Off-Line Mode
- Start
- Stop
- Receive

PHYSICAL CHARACTERISTICS

Width 24 inches
Height 9 inches
Depth 6.25 inches
Weight 10 pounds

CONTROLS AND INDICATORS

STATUS INDICATORS

LINE CHECK
PARITY ERROR
OVER-RUN
END-OF-TRANSMISSION
TERM ADDR

RECORD
EQUIP CHECK
DATA CHECK

COMMUNICATION CHANNEL(S) INDICATORS

TRANSMIT
RECEIVE

DESIGNATOR INDICATORS

ALARM
REMOTE ALERT
TEST MODE
FAULT

ROTARY SWITCHES

TRANSMIT DEVICE SELECT
RECEIVE DEVICE SELECT
REMOTE RECEIVE DEVICE SELECT/PROGRAM SELECT

CONTROL SWITCH/INDICATORS

POWER ON/OFF
ALARM CLEAR
SIGNAL REMOTE
TERMINATE
PRINTOUT
AUTO ANSWER
TRANSMIT
TRANSMIT TRANSPARENCY MODE
OFF-LINE MODE
START
STOP

Communications Channel

MODE OF OPERATION

Half or full duplex

TYPE OF TRANSMISSION

Asynchronous or synchronous

TRANSMISSION SPEED

Up to 50,000 bits per second

CHARACTER SIZE

5, 6, 7, or 8 bits

TRANSMISSION MEDIA

Private or dialed network

MODEM INTERFACE

EIA-RS232B

TELETYPE INTERFACE

20ma to 60ma neutral or 35ma polar

MODEM COMPATIBILITY

BELL SYSTEM DATA SETS OR EQUIVALENT:

- 103A2, E & F
- 201A3 and 201B3
- 202C and 202D
- Unattended answering feature compatible with Bell System 205, 301, and 303 Data Sets

SPECIAL FEATURES

- Character parity checking and generation (odd or even parity)
- SOM and EOM Character detection
- SYN Character generation
- Longitudinal redundancy check
- Cyclic redundancy check
- Unattended answering

Technical Control Panel

PURPOSE

- Provides necessary controls to "bootstrap" in application programs
- Provides indicators to monitor channel activity
- Provides indicators and controls for maintenance

CONTROLS AND INDICATORS

COMMUNICATION CHANNEL INDICATORS

DATA SET READY
TRANSMIT
CLEAR-TO-SEND
RECEIVE
CARRIER ON
SYN

SWITCH/INDICATOR CONTROLS

LOAD FROM DEVICE
START LOAD
BCD LOAD MODE (BOOTSTRAP)
EDIT LOAD MODE (BOOTSTRAP)
RE-START
HOLD
RUN

SWITCHES

ALARM DISABLE/ENABLE
COMM. CH. TEST MODE ON/OFF
LAMP TEST
I/O DISABLE/ENABLE

Medium-Speed Chain Printer

PRINTING RATE

- 300 LPM — 64-character font, standard
- 210 LPM — 96-character font, optional
- 162 LPM — 128-character font, optional
- 380 LPM — 48-character font, optional
- 450 LPM — 16-character font, optional

PRINT LINE

- 136 columns
- 10 columns per inch

LINE SPACING

- 6 or 8 lines per inch
- Operator selectable

VERTICAL FORMATTING

- 12-channel
- Line spacing of 0 to 31 lines

CHARACTER SET

- EBCDIC
- ASCII

PAPERFEED

- Single-line spacing
- 30ms interval
- Paper slew rate of 17 inches per second

FORM SIZE

- 6 to 18-¾ inches
- Double-sprocketed
- Fan-fold forms multiple copies
- 6-part carbon forms

FONT STYLE

- IBM 0.095 type size (1403)

COMMANDS

SEND STATUS
LOAD BUFFER
PRINT
ERROR RESET

Card Reader

SPEED

- 400 cards per minute, standard
- 225 cards per minute, optional
- 600 cards per minute, optional

TYPE CARD

- Standard 80 column
- 51 column, optional

PUNCHED CARD CODE

- Hollerith code
- Column binary
- Hollerith code is translated to EBCDIC code by interface; no translation when card punched in column binary

CARD CAPACITY

- Hopper and stacker each have a 500 card capacity

SPECIAL

- Card reader operation is automatically stopped upon detection of an error or malfunction
- Dark/light current checks and motion checks are exercised as cards are picked and stacked at the maximum reader rate

ERROR CONTROL

- Dark current/light current functional checks of read station during card processing
- Card track checks
- Metered vs. sensed card length check

COMMANDS

SEND STATUS
READ - EBCDIC CODE
READ - COLUMN BINARY

STATUS

READY
NO PRINT COMMAND
PRINTER ERROR
OVERRUN
ILLEGAL COMMAND
PARITY ERROR
VALID STATUS
LINE READY

OPERATOR CONTROLS

Power On/Off — switch/indicator
Formfeed — switch
Start — switch
Stop — switch

STATUS INDICATORS

Alarm — indicator
Off-line — indicator
Paper — indicator
Yoke Open — indicator
Fuse — indicator
Parity — indicator

PHYSICAL CHARACTERISTICS

Width 40.5 inches
Height 48 inches
Depth 29.25 inches
Weight 500 pounds

ENVIRONMENTAL REQUIREMENTS

Temperature Range 50° to 100°F
Humidity Range 40% to 80% RH

POWER REQUIREMENTS

115 VAC at 10 A, single-phase, 60 Hz
230 VAC at 5 A, single-phase, 50 Hz

STATUS

READY
HOPPER EMPTY
READER CHECK
OVERRUN
ILLEGAL COMMAND
VALID STATUS

OPERATOR CONTROLS

Power — indicator/switch
Motor — indicator/switch
Start — indicator/switch
Stop — indicator/switch
Pick — indicator
Motion — indicator
Light — indicator
Dark — indicator

PHYSICAL CHARACTERISTICS

Width 23 inches
Height 13 inches
Depth 12.5 inches
Weight 68 pounds

ENVIRONMENTAL REQUIREMENTS

Temperature Range 32° to 125°F
Humidity Range 20% to 95% RH

POWER REQUIREMENTS

115 VAC at 2-½ A, single-phase, 60 Hz



ATRON CORPORATION

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**THE ATRON DATAMANAGER
REMOTE BUSINESS TERMINAL**